

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2010; month=12; day=15; hr=14; min=47; sec=45; ms=645;
]

=====

Application No: 10562089

Version No: 2.0

Input Set:

Output Set:

Started: 2010-12-09 18:45:51.509

Finished: 2010-12-09 18:45:54.475

Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 966 ms

Total Warnings: 69

Total Errors: 0

No. of SeqIDs Defined: 76

Actual SeqID Count: 76

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22)
W 213	Artificial or Unknown found in <213> in SEQ ID (23)
W 213	Artificial or Unknown found in <213> in SEQ ID (24)

Input Set:

Output Set:

Started: 2010-12-09 18:45:51.509
Finished: 2010-12-09 18:45:54.475
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 966 ms
Total Warnings: 69
Total Errors: 0
No. of SeqIDs Defined: 76
Actual SeqID Count: 76

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> EPIGENOMICS AG

LOFTON-DAY, Catherine

EBERT, Matthias

<120> METHODS AND NUCLEIC ACIDS FOR THE ANALYSIS OF COLON CELL
PROLIFERATIVE DISORDERS

<130> EPIGEN1480

<140> 10562089

<141> 2010-12-09

<150> PCT/US04/20279

<151> 2004-06-23

<150> US 10/603,138

<151> 2003-06-23

<160> 76

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 2470

<212> DNA

<213> Homo Sapiens

<400> 1

aaagatgatt	aaaagtttaa	ttgttcac	gaagagttga	tttttttatt	cctgtaataa	60
agggtacttt	tagcagtctc	tgtcatctt	gcccatccgg	ctctttttgt	ggttgtgtaa	120
ggttataact	tctgtgtctc	agtaaacttg	tgcatgccca	tttttttctc	tgttactacc	180
ttttctctta	ttttgtttta	ttattttgat	gtaaaattac	ctgttaattt	tatttgaaat	240
gagaaatttt	aagggttcaca	ttattcaaat	tctgtcagat	ccctacctct	gtcatatgg	300
ttataatgtg	ctgggtat	tcagacctgc	ttattaaaaa	gatgtaaaac	aaaataatga	360
tcactcctgt	ggatttttcc	ttattttttg	agatgtctcc	tttggtctgca	ttacttcttc	420
accccttgcc	cattgatcag	aggaggggtc	ttaactatgg	gtgaacccta	tatcttactg	480
aagagggttat	gttacatgta	tatttttcata	atataactta	catttacata	gtacttttat	540
ttttagcata	ccttttttta	ttaatcctaa	taatataact	gtaagttatg	ttgaagcaga	600
ttgtaagtgt	tcattttacaa	attgtgaaat	gaattaaaaat	gaaagggcaa	agattaaatc	660
atgaccaggc	ctgaaattaa	cacacaagac	tcaatttttt	tcaaccaaag	actttttag	720
gtgatccctg	cctgcaggac	tccccttcct	cctcagatgt	cattggattg	taccaggttt	780
actgtagatt	ctagccgttg	tagaactaac	tagatctaag	atgagtcgcc	tgatttcctt	840
tggttagagtc	ttccaattgc	tgaactccaa	tattgtcgtg	actagccagt	gttacaacct	900
gtctgcctta	ttttgtgtaa	tggatttcat	attacagagg	cattttttta	atgtcaagat	960
gtttaagtat	tgtttaagt	caaaactact	aatacttttt	agctattaag	taattaagat	1020
aggcaggatt	ttatttgttc	caaaatgatt	tgacctaaac	taaaaagaga	atgtggatct	1080
cctgaatctt	acttgggttaa	tcttaatata	actcctagca	ttctataatt	cttcctaaag	1140
tcctcttacc	tggctatctt	ttgtatcttc	tttgtctctc	ctcttctttc	ccagtcataa	1200
taactgccag	actctgcttc	atctctcttt	gacagtctct	actcctaagg	tcattccattc	1260
tcttttaggt	tcttttggcc	tcagtttgag	cacagcagat	ccaagacca	catatgccat	1320
agcataggct	attatagtca	accttttgaa	taaatgtgat	tgaactttat	gttagtaatt	1380
cttatttacc	atcttcctat	caaaaaggct	taaagtcttc	atttaatgct	ctccttcctg	1440
tccattttgt	taaatgattg	ccttttaaatg	acatcttaga	acttcagaac	tatttcacca	1500

tggaggatgt	gtaagattag	ccttttatca	aataaaaagt	gtgaaatgga	atatgtaatc	1560
tcattaatcc	attctggctc	taaaattctg	tgactatcag	ataaaattca	gaaataaaat	1620
agtattacta	atataaataa	atttttatca	taattatatt	tcctaagttt	tgccgtgaag	1680
aatgggtaaa	atatctttta	aaccttgaag	aaattattac	ttgatagaaa	gtttaatcca	1740
tctgtgagaa	ggcaaatgta	ttcagacaca	actaaagttc	tctcttctat	tttaatttca	1800
tttatcttga	actaagactc	cactgtttca	tcctcttaga	tgctgctact	tgaacaatat	1860
tgttttgaga	ccaaaaacta	gcatattaac	acaattcttc	ttaaacgtct	taagagtttt	1920
gtttccttta	cccccttctt	taaaaacaag	cagccactaa	attttttagt	agtgaatttc	1980
aaaatccttt	ttaaccttat	aggccaagg	gtagccaagg	atggctgcag	cttcatatga	2040
tcagttgtta	aagcaagttg	aggcactgaa	gatggagaa	tc aaatcttc	gacaagagct	2100
agaagataat	tccaatcatc	ttacaaaact	ggaaactgag	gcatctaata	tgaaggtatc	2160
aagactgtga	cttttaattg	tagtttatcc	atttttattc	agtattccct	cttgtaaact	2220
tgaggtaaga	cactttactt	aaaagtgtat	tttaaatata	gcaataatat	gtaaactctt	2280
tcttgcaaaa	gttagcattt	atatttttaa	ataagatata	ttgaattcat	tcagtgaatc	2340
atataaagaa	aataagtgtg	aaactccaat	ggctagttag	ttcttagttc	tttttaagat	2400
taaagagaag	agaccaataa	tagcatcact	gtactgaggc	aagggtttct	gtgtagttca	2460
tagaaactag						2470

<210> 2

<211> 2229

<212> DNA

<213> Homo Sapiens

<400> 2

tctttcctcg	gcgctggctg	gtgcggggtg	gggtcagggtg	gagaagccgc	tctttgttaa	60
gggtgacagaa	cgtgctgggg	gtggggggccg	gggccagggc	cgggtgcaact	agggggccgc	120
tgccctttcc	tggacacagt	ggaagcttct	tcgcgcatcac	caaatttttg	tcaccccttc	180
tgaggggacct	gcttccaggc	agcacgcaag	ttgttgtecc	gggtttactc	cgcacccctc	240
tactgggtga	ggaaggagca	tcttgaatgg	agatgggggt	gtccccggtt	tatacatctg	300
cagagaagag	gtgtgccggg	ctgcacctct	ggaggccgcg	gtaactgata	ttagagaaga	360
ccccggttgc	agctgggaag	gctcactggc	tggaaagagg	tgccctcctc	ttccagcaaa	420
gggccctgtt	tgggaagggt	gcttctcacc	tgtctagtgg	caccacagga	cggtcggctt	480
ccactcgaat	tcccccgac	ggtatcatca	catagccggg	tcctcgcagt	gttggtttcc	540
caatccgatg	actgtcacct	cgggtaggac	ctgtgctgat	ggccggagaa	ccctgcgctg	600
cgggcgcaca	tggccagggtg	gcgcctggca	ggcgacgtcc	gggtgcagga	cggcgctctt	660
accgccccac	cccaaaccgt	tgccctgggc	taggtccttc	ggcttcctga	acagggtttt	720
gggggggctaa	ggacgctgag	gctccggggg	caggaaagtcc	tctctggtta	agcgttctct	780
cttctctccg	gcatacactc	ccctaccac	ccacctcgcc	tacctcggg	gcgagaggct	840
caccaaggca	gggcgcgccc	cccccatgaa	tcacccaag	gcctctgagc	cgcgggggct	900
cggggcaact	atccccctcc	tctcctggcc	tcaggcacc	cagtccaggg	gtctgcagag	960
aagcccgaag	cccgacaaaa	cgcgcgggac	gtcaacaacc	tctcatccct	ggcagcagca	1020
aaggccaata	tattttccatt	tcttattttca	gtttgccacc	aaaacaaagc	tgcgcgcggc	1080
tgagggcagg	aaggcgctga	gaccgagaag	aagggacgtc	ccggagaaaag	tgcgcccagc	1140
tgatcttaga	aaccagagtc	ctccgggact	tcgcccagat	tttctgtagg	gcgttttaat	1200
ctgttttctc	actgcgtgcc	ggcgtcgcag	cgcgtcgggc	tcagggcttg	gtgactccgg	1260
cttagcccgg	cggtcgcggc	gagggttctg	gcgcagccgc	ttggaaacttc	gcattagaat	1320
cgggaccgcg	caaatgccct	ggctgaagtg	tcacctatt	caagaaacac	tgctgtcagg	1380
aacaaaatgg	gggtcccggg	gctccgaagt	atcttctgaa	attttcttaa	aacaacttac	1440
aaaaaatgtt	tttgctttta	cgtttttaca	cgttttaagga	aacatgtaaa	tgggtctgtt	1500
ctttatcgag	atggtcgtcc	taactaacag	tgtacacata	cataacaatt	cttccaactt	1560
tcctcctcag	agctaagcac	ttcactatat	gtaaattata	ataaagaaaa	gattgtgcaa	1620
gatcatgcaa	gtcgattgac	ttaaaatatt	gagttttaat	ccaggccctc	tgtttttcta	1680
tttaacaact	tttgtgtttg	gaccagactg	gtgaagcagg	ctatggaaat	taacaaagta	1740
aaaaattaaa	agcatcttcc	ttcgccatcc	ctccctccaa	aattaaacaa	cagtcgcccc	1800
ttcctgagca	ggcttcagtc	ccaggctcga	gttttctctg	gatcacccca	cagtcaccca	1860
cagcagctgt	tgtgtcttct	gtcgggtttt	cgtttctgcc	ttctttgggt	cgtctcttgt	1920

atacaaaaaca	caccccagtt	ctctaactaa	attcaaatac	gaccccgga	gaatttacac	1980
atttcgtggt	gcatggattg	tgtcggtgca	ggggaaataa	ataccctctg	gtattttaacc	2040
actgagtcta	attcgaaaaa	tcgggactgg	gccctagggc	ggcaccag	gggctccaac	2100
ctggcccgcg	cctccccaga	ccttggcgct	gagagcgctg	cttttgcggg	tgggtggacg	2160
gagaggtaac	aatctgcttt	caacaaaaac	ctgtcgccac	cgaatcgaaa	gcgaaaggga	2220
agggagaag						2229

<210> 3

<211> 7833

<212> DNA

<213> Homo Sapiens

<400> 3

gtctttggtg	agatatgtgt	tttacaagtt	ttaatggaga	aaaatgtaag	tattttacct	60
cctgaaactt	ggctatttga	gtaatgagaa	aatagtcact	ttcccagga	cagtggttct	120
caatcatggc	tatgtgtttc	tccaggaaaa	ctttaaaaaat	atataatac	caatgcttct	180
gtgtcacttc	tagggattcc	aagtctttga	atacgaactc	tgcacagta	ttctttaatt	240
atccaggtga	ttgtgatgtg	aaatcatgac	tgagccccac	tgctctaaga	tgaaataaac	300
tttcctcagc	actgaaatca	caaacttaaa	ctacccaaaat	taattaaggg	catgggaatc	360
aataaggcat	agggaagctt	ttacattata	aaattatttc	tttaaatcac	agctcattgt	420
ttatatgtta	tttgccattg	tagaaaaggg	tgaaaaaata	gcaaatttaa	ttactctcag	480
tttgaaaaat	tatccagaaa	tgaagatgac	gactctgaaa	cattgtcaat	atcatttgac	540
ctataaataa	tgttctaata	catttactac	acactgatag	atactttttc	atatgaatat	600
tatacattaa	aactaaggca	ataatgcatt	tagaacattc	tatctatatc	tatgtatctt	660
aagtaggcta	gaaattaaga	tatgagttat	taagtatgag	atgtaaggt	gtggggttag	720
aaattatact	gtacttcatt	atcaataatc	aacatatact	tcaatatcac	atacatttaa	780
ctttaatttg	tacatcttta	actattttta	attatgtgta	taaatataag	tacacacatc	840
tttatgtatt	tattttattca	tacctccatt	cacttattta	tataggggat	ccccccaaat	900
ccactaccat	taaaccatac	atttttat	taatctttag	aacaagccca	ggaggcaggt	960
attgttatta	ctcacatttt	acaaatgagg	aaattgtcta	cagtcacaaa	gttactgtgt	1020
cagacatatt	agaagcttaa	tacatatattg	gtgaacatat	gcataaaaaac	agagagacag	1080
acatgtacaa	cagctcatct	ttacactgag	taaaagcttt	taacctgtct	cagaaacctc	1140
tctgtgaaaa	ctgagcaaaa	atcgagggtat	cctttcattt	gtcatatagg	tatagggtgt	1200
accttacttc	tccaacaagg	atgaatattg	aaatgtggat	cccaaggccc	aactccagat	1260
tttctgaatc	cctgatagtg	ggacttgga	tttgtctatt	gtttcaaagt	ttctcaagga	1320
attcatatga	tcaaccaggt	tcagaaatca	ctggatctta	ttgccgaagt	ttgagaatta	1380
aagtttgggc	cttactgcgg	ctccacagaa	agggcaaatg	aagtatcatg	gacagaactg	1440
atacgttccc	agttagtttc	ccctctcaga	agctaacagg	cagcaataca	gcagaaatta	1500
gtgacttatg	tcttgtgtct	tgaagtcagg	cagaatttca	cagagtccca	gcagtgtcac	1560
tgacgagatt	tgtttcttgg	ggcaagttgc	ctgatgcttt	caaagccata	ttccttttat	1620
ataaaatgag	ataatattct	ttgtctcata	ggggtgtttt	aaagattaaa	taaaaaataac	1680
atgttctatc	ctacatggca	caatgcctga	cacctaaaga	gcaaaggata	catcttacct	1740
ttattgaagc	aatcagaaag	tatgaaatca	tgaaggagat	aagagtctcg	attggcagtg	1800
tatcttattt	tcccagggtc	atttatttat	cttaaaactat	tcttgttgga	gaataactcc	1860
caagccccct	acttaagctg	tgagtaatct	caccttttat	aatgatgttc	tttccatgag	1920
aaaaaaaaat	gttcttaagt	tttctggaga	aaatatatct	gcactatttc	tactgaaaaa	1980
tctaacaact	ggactctgct	cctctgcac	aattctagag	tgtatatgcc	acaaataaag	2040
tgttctagct	caagaagatt	gaaagtaaat	atggtatagt	attttaaaat	aagaattttg	2100
caaatacatg	gtatgattgt	gtcatattac	tagcaatcat	atgatacgca	atgcaaagta	2160
cagttcatag	acttaaaattt	aattcttaata	agtaaaactga	ttttgccttg	ctggggaaaa	2220
gttaaagcac	taatccaatt	gctaatagcag	tcttgtctac	ttctttggta	cctagtgaca	2280
agtctaaata	atgtatatat	ttttattttac	atattcagta	atacaattct	ctgctcaatg	2340
agtgatgttc	ttctgccact	tgggtggtgct	tgccagtttc	agaatttgtt	tcttgggtggc	2400
actataacac	taagtacaga	gtaagtgcac	caaaatttgc	gcattcccat	tgaaaaggct	2460
ttgcttcaaa	ctgttttaata	attttaaagga	cctctgtgga	agcaaccgca	tttgtttaacc	2520
agttacaacc	agtaattaac	tcctttggag	ttttaactta	cttttggcaa	aacgtcttag	2580

gaagagcata	tattattaga	aagtatgcca	aaaattttact	tagcagaaaa	ttcaaaaaca	2640
gttttcctct	gctaagaggt	tctctaaaat	tctacttaca	tagccaaact	ctgaaatcct	2700
agcaggtcct	gtttcattat	cataattact	gcataaacac	ttttaaggac	tttgccttta	2760
gtttcaagca	tgacttattt	tcataagcct	gattagttac	cacaccagcc	ttgctatgga	2820
aaatgacatg	ttctcattct	ctgctgtaga	gttggttaa	cttgatctat	atztatgttg	2880
ccttctctgc	tgaaagcctg	tagcgaaaga	aattttcta	tccttgtttt	gcaatattag	2940
ttggcagctc	tatctaattg	gtattctgtt	tccttaaaga	atttagctgc	tctgtctaga	3000
agccgatttt	ctgatgcctc	caacgtctgg	tetaattgat	ctgtttta	ggagtcttcg	3060
tcggtgagga	gcgagatgcc	accgactaga	atgctgggat	ctgctgctta	attgccagga	3120
gtgagagaca	ctgagattca	gaaatctttg	gaggtgggag	gggagaggga	cagtctcgga	3180
cggaggcgga	gatgtaagat	aaagggatgg	atttcacaca	ggaaaaaaa	aaagatttcg	3240
ttgaggcact	gaggtgctgc	acgatcacat	ctctcaaagg	agaagttaa	aagcaaggaa	3300
gtgggaggag	gttgagggtt	aaagtactta	aaaggattac	tcgggtacaa	tttgtttttc	3360
tgctggtgtc	tgcaaaggat	agatagtccc	gttttcaaag	tatatgaatg	cctcttttaa	3420
gtgattggga	atggacacta	attgctgtt	aaatgttatc	aaatgctctc	ctaaattcag	3480
gggacacaga	aagaggggca	caaaaggaga	atttaaatag	aaaaagggag	gatccggagg	3540
cttttgaaag	cggggggaga	agaaggagga	gggataacag	agaggaatag	agaaggagag	3600
cggagagaag	ataaacaana	acaaaaacag	gaatcactga	ataatcacac	acaaaaaaga	3660
aagctcttcc	ctatggggca	tccaaaacac	tgagactgca	atagtgaccc	cggtcatgga	3720
agaaagatgt	tcctctccac	ccttgctccc	gaaagctctt	gggcccggtt	ctggcgacta	3780
aaattccatt	aggctaaaga	gtgtgtctaa	ctgcctgaag	aatgcagcag	acggaaggcg	3840
gggcccgcta	tgccgtttgc	ccttcccgt	ggagagaatg	aaagaaacgc	gcagagccag	3900
agactcctgc	cgagttagac	cttctctcgt	cgcccagggt	caccggccat	cgggcaaaga	3960
cccagtaag	gaacgcaggg	tactgcctg	ggccaacaaa	tggagcccgc	tctccccttc	4020
cggacgccg	ctgccgggcc	gatgctccc	gcaaccacc	cggcgctat	gcagaggagc	4080
ctttctcttt	ctctcagacc	acttgtccc	accaatctga	ccttccaaac	acatctgacc	4140
gcacctccca	ggtggacaca	ctaataggct	acgggctgga	gaggagcggg	tgatgaggag	4200
agggattcaa	acctgcgaac	gcttgggctg	ggtcggagct	gcggggggcc	tgaggaggaga	4260
gaggggagaa	gagagaagga	aggagagcgc	ctgccgggat	ggctgagctg	cctcggcgag	4320
cagccttggg	gttgcacgct	cttgtgggag	atgctgctgt	tgcttccagg	tcggcaagag	4380
cggttctaac	accatcgct	ctcaccctct	ttcctgtaaa	tccttagaga	aacgtccctg	4440
gcctctccgc	cgcgacattc	ccagcctgca	tccccctaca	gcctaggcgg	cgcgctccc	4500
cacgctggag	cgcgggtcgc	cagcaggacg	ccctctccc	cgcgactcg	ccctctctg	4560
ccctgctgct	gctgctctc	tgacacctcc	gccccacca	tctccagctc	ggagagacgc	4620
caccagccg	cggccgcac	tcggggcccg	gggtcacgcg	cggaaagggg	gcgctagtcc	4680
ggaccccgcc	ttcggtaggg	ggcgtcctgg	agcggagagt	gaggcgaatg	gtatatgagt	4740
gtgcggttag	cccaccctga	agcccgagct	tctatttga	gccatgcccc	gcctagcccc	4800
actcgggcca	gcgcctggcg	agcagagcca	tctgtggctt	ccgcggccgc	ctcctccttg	4860
catccttgca	cctactcgtc	gacccctccc	tcccgggacc	tgcatcctgc	tcaccaatc	4920
agagcccgac	tgectcttcc	cacgtgaccc	cggcggggct	gaggacctgc	tgcttcccaa	4980
acgccagagg	gatgcggggc	gcagagctcg	agaggggct	gccgggctgc	ggggcgccct	5040
gactctccct	ccaccctgcc	tcctcgggct	ccactcgtct	gccctggac	tcccgctctc	5100
tcctgtctc	cggcttccca	gagctccctc	cttatggcag	cagcttccc	cgtctccggc	5160
gcagcttctc	agcggacgac	cctctcgctc	cggggtgag	cccagtcct	ggatgtgct	5220
gaaactctcg	agatcatgcg	cgggtttggc	tgctgcttcc	ccgcgggtg	ccactgccac	5280
cgcgcgcgcc	tctgctgccg	ccgtccgcgg	gatgctcagt	agcccgtgc	ccggcccccg	5340
cgatcctgtg	ttcctcgga	gccgtttgct	gctgcagagt	tgacagaa	agtcatggtg	5400
ctgtgggagt	ccccgcggca	gtgcagcagc	tggaacttt	gcgagggtt	ttgctggctg	5460
ctgctgctgc	ccgtcatgct	actcatcgta	gcccgcggg	tgaagctcgc	tgctttccct	5520
acctccttaa	gtgactgcca	aacgcccacc	ggctggaatt	gctctggtaa	gtccagaacc	5580
cccgctcccc	accttttaac	tccgcagaag	aacacgcgta	tccagcacag	accagcctac	5640
cctagcgcgc	ctcctcagcc	cctcacctcc	tactgcccta	gaccccta	accacccacc	5700
tctatccaga	gaaacaaggg	gaactgttgc	aggcccgggg	gtgaggggtg	gttctgggat	5760
gggcagaaa	tgaggtgta	gcaggaaacc	tttgcatgct	tgcgcttaca	ttggagctgc	5820
gaggattttg	agaaatatta	aacgggatgg	ttttctgggt	tactgtttt	gaaagagcac	5880
caatcctagg	ggaaacactg	aaacagaagc	tttgtcatca	ttaaagaaa	aagtcttact	5940
aggatgagga	agaaataact	ttatgagaaa	gaatgagcga	gaaagcaata	aatcaaatgg	6000

tgactgcagg	ggaatcgctg	attcctggca	aaggtgccat	gaggtcgcac	tggtctcccg	6060
ttgaagacca	ggtcacacag	attctagagg	agctgggttt	caatagaatt	tctctctctc	6120
tctctctctc	tctctctctc	tctctctctc	tctctctatc	tatctatctc	tctctctctc	6180
tcattccctt	ctctcctagg	cggcaaaaga	cattgggttt	gcagtccaga	tatgcccctc	6240
tctttgcttc	cctaagcttc	aaggtagtac	aggggagttg	agaaaaagaa	cactttgcgg	6300
gtctcccagg	ccggagtggg	catgactgag	gctggtcagg	ctccatgtag	gcgagccgag	6360
ggcgggaaccg	acttcagtg	gcgctgactc	ctccatttct	ggacaggett	ctgtggagt	6420
ggtcaggcac	tcttcttgct	cgtctgggtt	ccttcagatt	ctgacggcga	acgcttgcca	6480
ggcttcgctc	tgctgaagct	tcctaattaa	atagggccag	aggatgggag	ttgctgcaact	6540
cctagctggc	atagcattcg	gttttgacagc	ctgtagtata	gggtgtatgt	aatttttcat	6600
cttctgtgaa	tataattttg	ctgtagttaa	atctggctct	gaataaagt	tctttcaaag	6660
atgtatataa	gctgaagtgt	atgtaacttt	agagaggagg	gaatgaccaa	ctgtaactca	6720
gggtgaaagc	ctgtatagtt	cctagttatt	actgatgtaa	atgccaaaag	gaaaattatt	6780
atgcatcatt	ctaattttatc	ctttacaaaag	acaagttgag	atatgcaacc	ctattagatt	6840
tgggtcaata	gattgttctc	ttttttggca	gtttctaaat	ttggcatttt	aataaaaactc	6900
aacatgtttc	tataacttct	tgattcatgc	gtacatgtgt	gttgtttttg	aaagaataag	6960
tttcactttg	ctattgccta	atcacttttt	agatgcttta	ttatggtaat	aattatgagc	7020
ctgcaaaaac	aatttttggg	aatgttgatg	gctttgtagt	ccaacacaga	ctggtttget	7080
tcattcctag	cccttgcaatt	gttttaggaa	ataactaact	taaatgtgaa	gttgacattt	7140
gcaatcaaga	aattacatat	ttaccagata	ttttaaaggg	gactgcataa	actaaagaga	7200
ataaactggt	tttgacagata	ggttgtcaag	aacttggcac	cccgttcca	cccctgttaa	7260
cttagagggtg	atcaatcttc	atttgagcca	aacagaccat	cacagaaaac	actgtgcctg	7320
tttatcttta	ttattgaggc	tttgtttcc	ctttgtctgg	atacatttca	aataaggggt	7380
tgtttcagtc	gttgaagcaa	aagaacaatt	aaagatgggg	aaatggtaaa	agggatttca	7440
gagatcatca	ctagctcttt	tccaaaatgt	ggagttttgt	ggtcataaat	attgtccacc	7500
taatgagcaa	aaaataaaaa	taaaaaaaa	acaggaagca	aatgttaagc	tttcattcac	7560
cactgtcagt	attaacgcaa	gctttaaaaa	atagcactat	cagaaaagga	tactaaagga	7620
gaattgacta	gaaaagaatt	gtggaaaatg	gaaacgaata	ttgatcactt	aactagattt	7680
tgaggttatc	agtagacagt	gaccttgacg	tacagctata	gttgttggat	ttaaaattta	7740
ggacaagtat	tttaaagctt	caaagtagtg	cttttttttg	ttaaaaatct	gtaagatgtt	7800
ttaatgactg	gagtgttctc	tttgaatttg	agg			7833

<210> 4

<211> 5666

<212> DNA

<213> Homo Sapiens

<400> 4

aaaattagaa	cttttacctc	cttgcgcttg	ttatactctt	tagtgctgtt	taacttttct	60
ttgtaagtga	gggtggtgga	gggtgcccat	aatcttttca	gggagtaagt	tcttcttggt	120
ctttctttct	ttctttcttt	ctttttttct	tgagaccaag	tttcgctctt	gtctcccagg	180
ctggagtgc	atggcgcgat	ctcggtcac	tgcaacctcc	gccttctcct	gggttcaagc	240
gattctctta	catcagcctc	cgagtagctg	ggattacagg	catgcgccac	caagccccgc	300
taattttgta	tttttttagta	gagacagggg	ttcgccatgt	tggtcaggct	tgtctcgaa	360
tcctggcctc	aggtgatccg	cctgtctcgg	cctcccagaa	tgctgggatt	atagacgtga	420
gccaccgcat	ccggactttc	cttttatgta	atagtataaa	ttctatccaa	agcatttttt	480
tttttttttg	agtcggagtc	tcattctgtc	accaggtctg	gagggtgggtg	gcgcgatctc	540
ggcttactgc	aaactctgcc	tcccgggttc	aagcgattct	cctgcctcag	cctcctgagt	600
agctggaatt	acacacgtgc	gccaccatgg	ccagctaatt	tttgtatttt	tagtagagac	660
ggggtgtcac	cattttggcc	aaagetggcct	cgaactcctg	acctcagggtg	atctgcccg	720
ctcggttcc	caaagtgtctg	ggattacagg	tgtgagccac	cgcgtcctgc	tccaaagcat	780
tttctttcta	tgcttcaaaa	caagattgca	agccagtcct	caaagcggat	aattcaagag	840
ctaacaggta	ttagcttagg	atgtgtggca	ctgttcttaa	ggcttatatg	tattaataca	900
tcattttaa	tcacaacaac	ccctataaag	cagggggcac	tcataattccc	ttcccccttt	960
ataattacga	aaaatgcaag	gtattttcag	taggaaagag	aaatgtgaga	agtgtgaagg	1020
agacaggaca	gtatttgaag	ctggctcttg	gatcactgt			